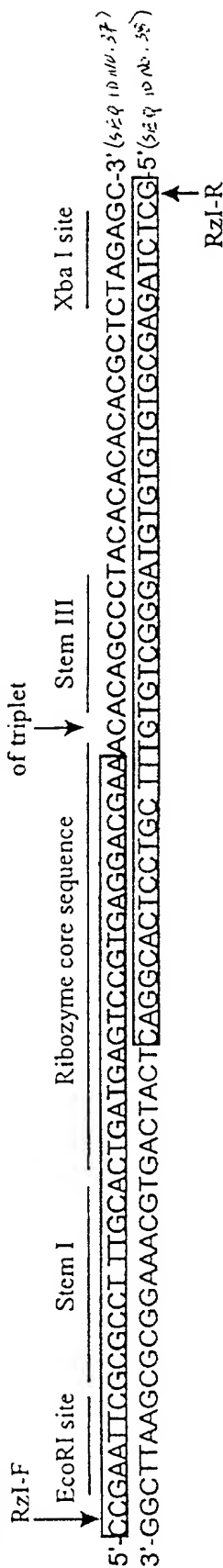
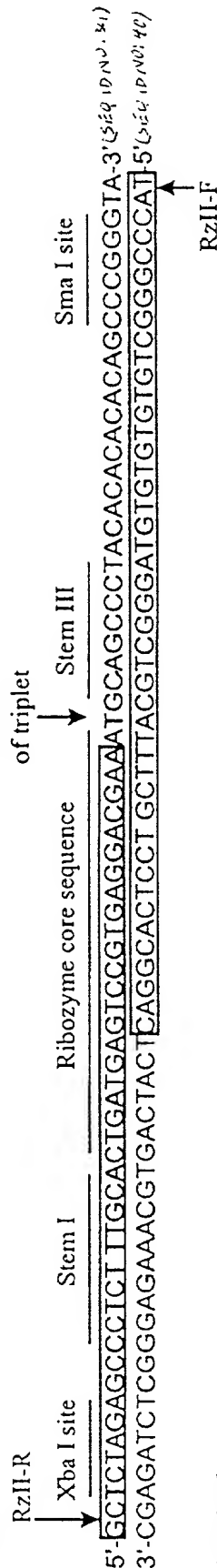


Fig. 1

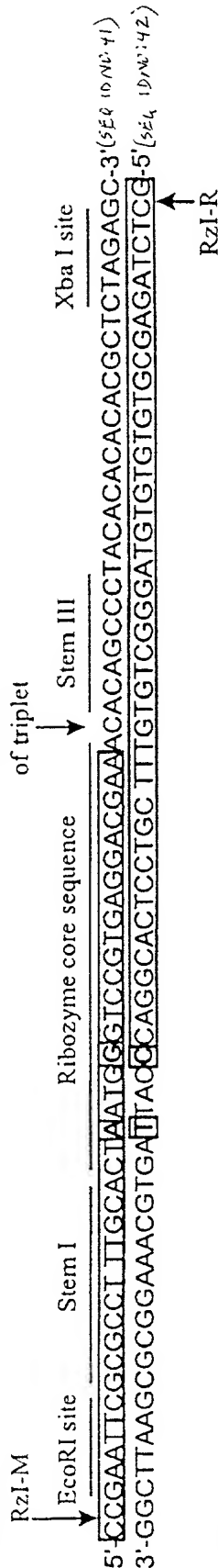
Rz1-2



Rz4-9



Rz2-6



Rz3-3

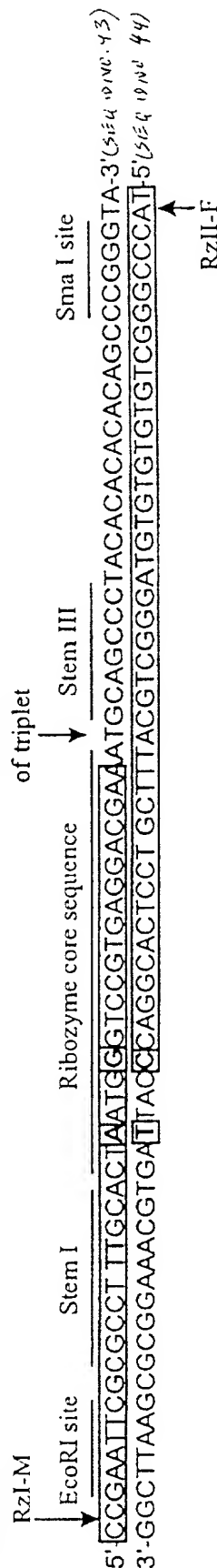


Fig. 2A

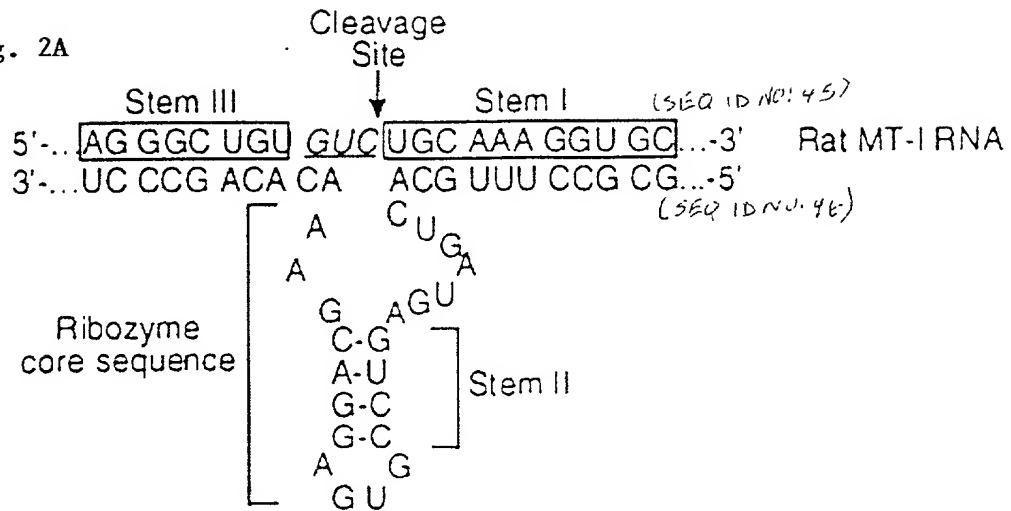


Fig. 2B

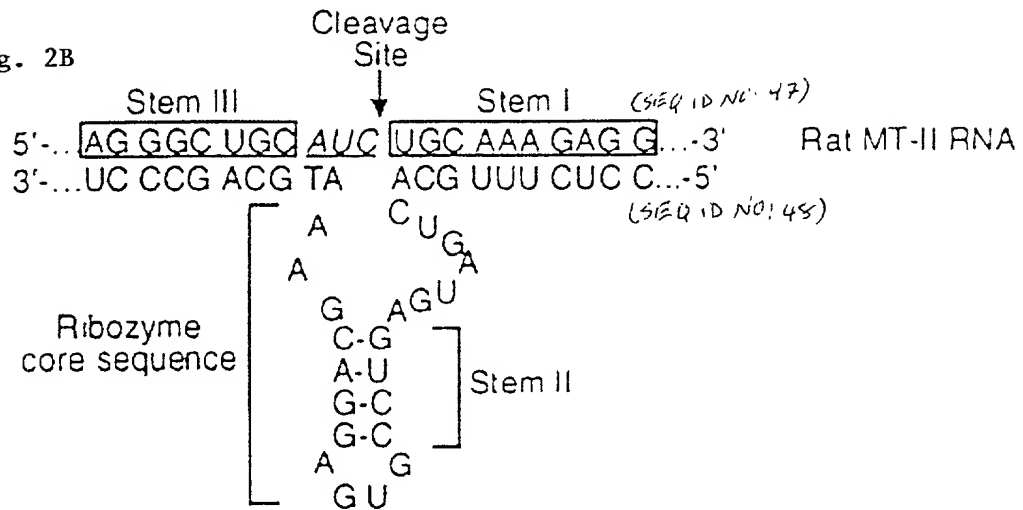


Fig. 3

Sequence Comparison between Rodent and Human MT Messages on the Regions Recognized by Ribozymes
(MT-I Rz, upper; MT-II Rz, lower) and Their Cleavage Triplets

Gene	Accession No. (NCBI GenBank)	AGGGCTGT Stem III -nt 137-144 (8 nt)	GTC Cleavage triplet -nt. 145-147	TGCAAAGGCGC Stem I -nt. 148-158 (11 nt)	Expected effectiveness
MT-I Rz (Rz1-2)					
Mouse MT-I	S62785	PM	PM	PM	+
Rat MT-I	M11794	PM	PM	C → T (nt. 156)	+
Human MT-Ib	M13485	PM	PM	G → T (nt. 157)	+
Human MT-Ic	M10942	T → C (nt. 144)*	PM	C → G (nt. 156)	-
Human MT-If	M10943	PM	C → T (nt. 147)*	C → G (nt. 156)	-
Human MT-Ir	X97261	T → C (nt. 144)*	PM	C → G (nt. 156)	-
MT-II Rz (Rz4-9)					
Mouse MT-II	K02236	PM	PM	PM	+
Rat MT-II	M11794	PM	PM	PM	+
Human MT-II	M26637	PM	PM	A → G (nt. 155)	+
Human MT-Ia	K01383	PM	C → G (nt. 147)*	A → G (nt. 155)	-
Human MT-Ic	M10942	PM	A → G (nt. 145)*	A → G (nt. 155)	-
Human MT-Ig	J03910	G → A (nt. 138)	PM	A → G (nt. 155)	+
Human MT-Ih	X64834	PM	PM	A → G (nt. 155)	+
Human MT-II	X76717	PM	PM	A → G (nt. 155)	+
Human MT-Ir	X97261	PM	A → G (nt. 145)*	A → G (nt. 155)	-
Human MT-Ix	X65607	PM	PM	A → G (nt. 155)	+

Fig. 4

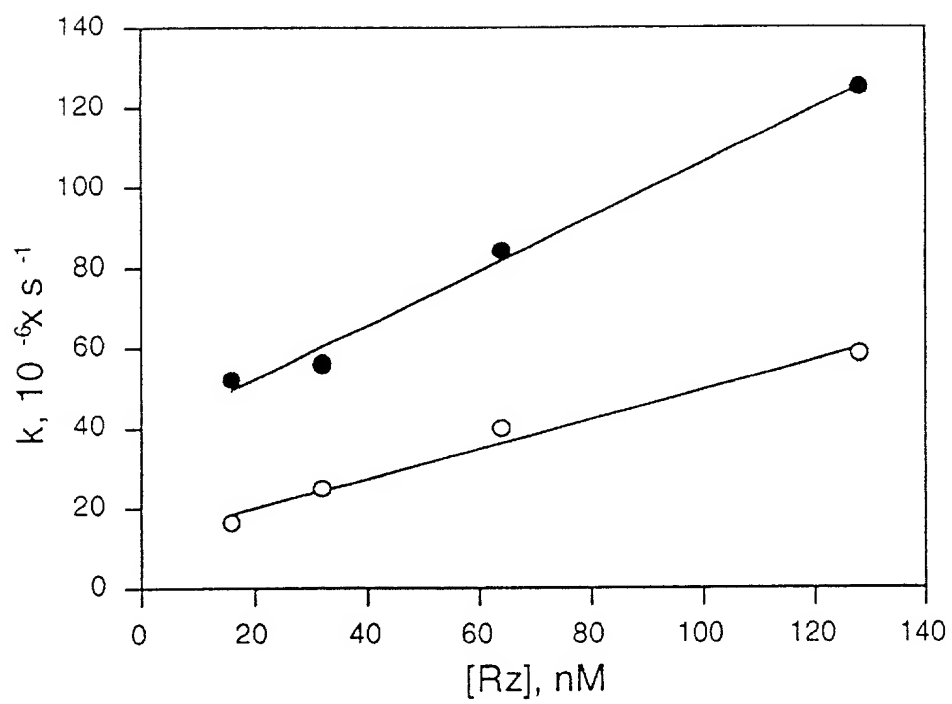


Fig. 5

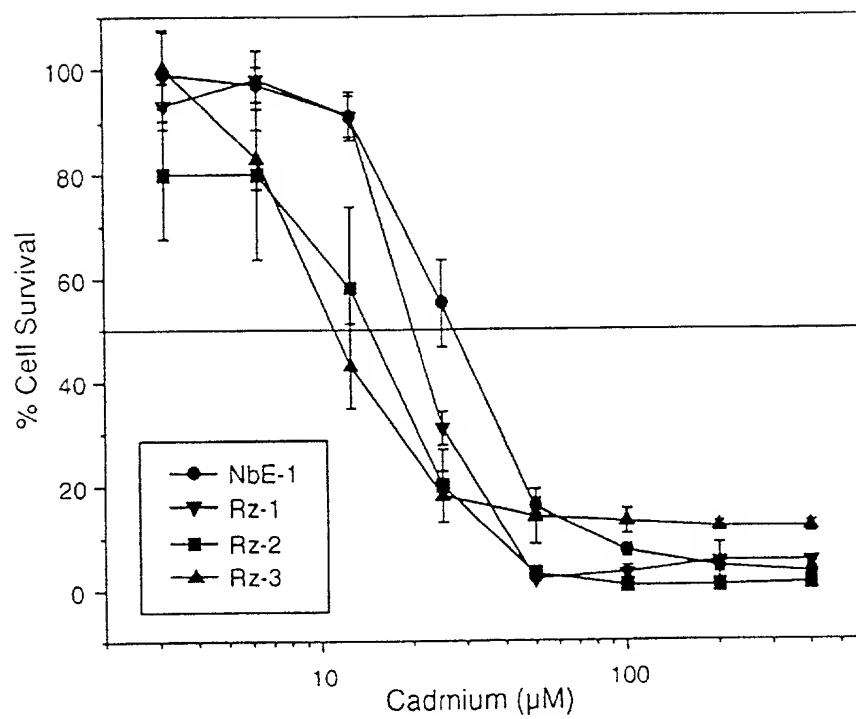
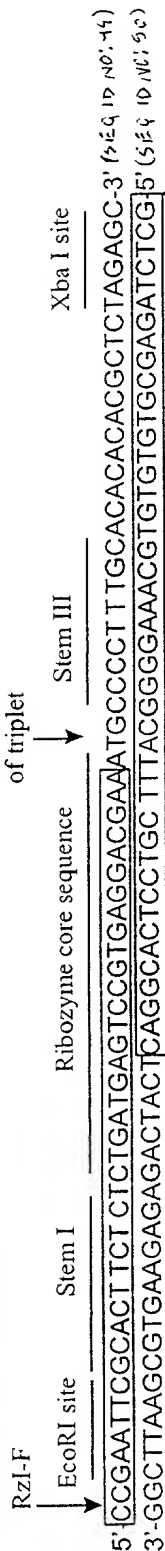
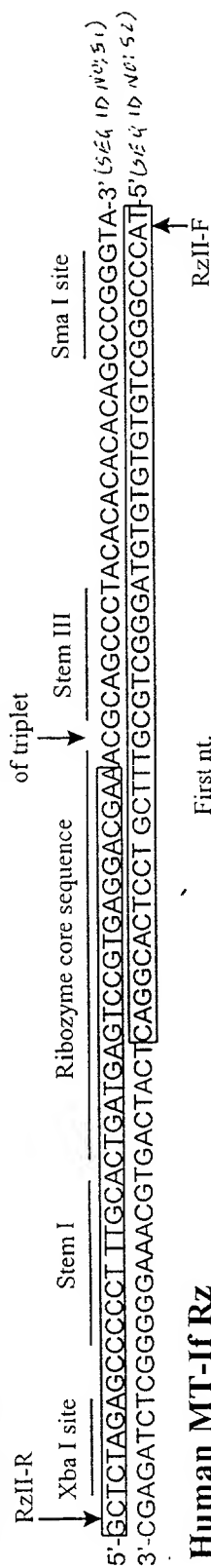


Fig. 6

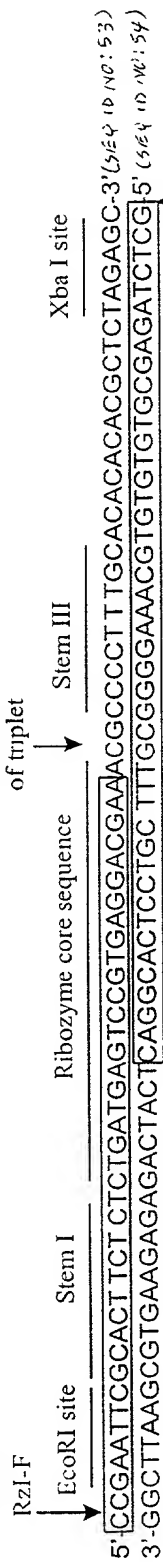
Human MT-Ia Rz



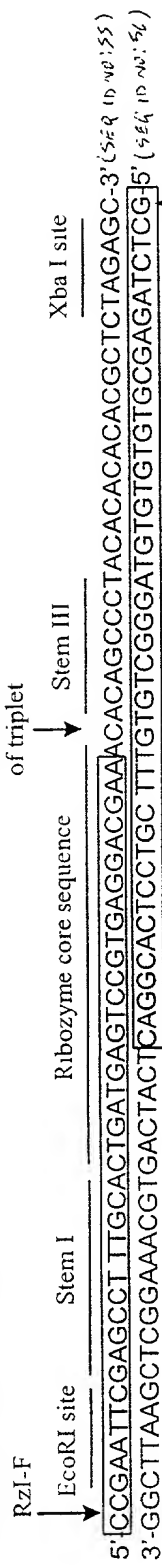
Human MT-Ie/r Rz



Human MT-If Rz



Human MT-Ib Rz



Human MT-Ighlx/-II Rz

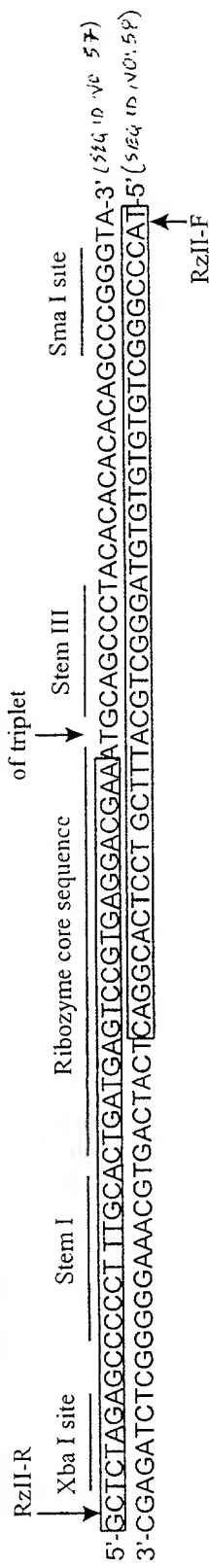


Fig. 7A

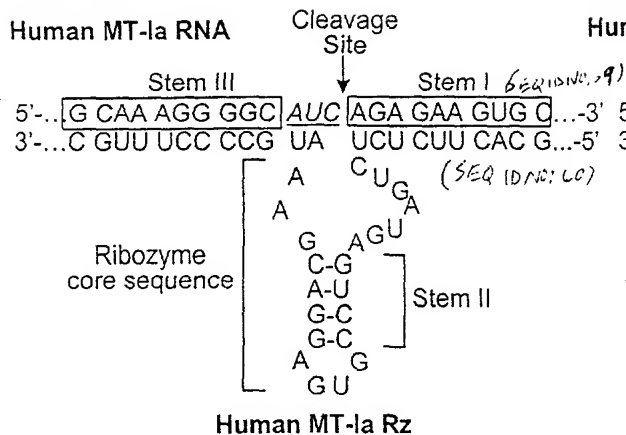


Fig. 7B

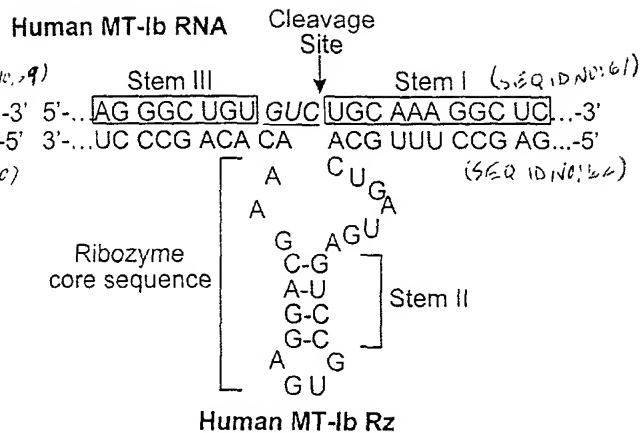


Fig. 7C

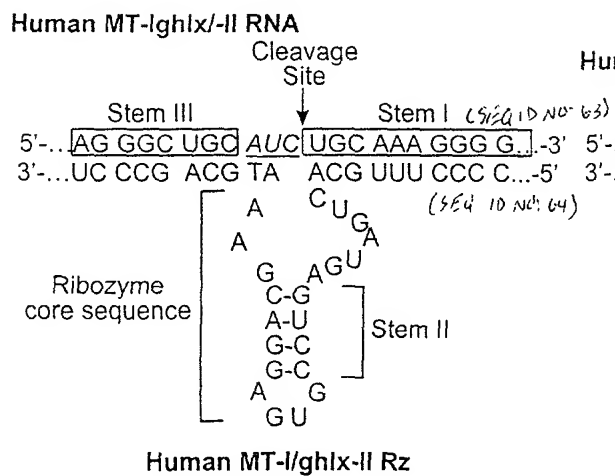


Fig. 7D

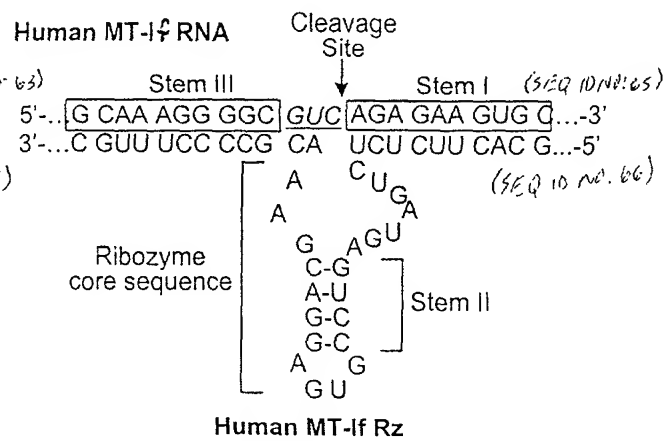


Fig. 7E

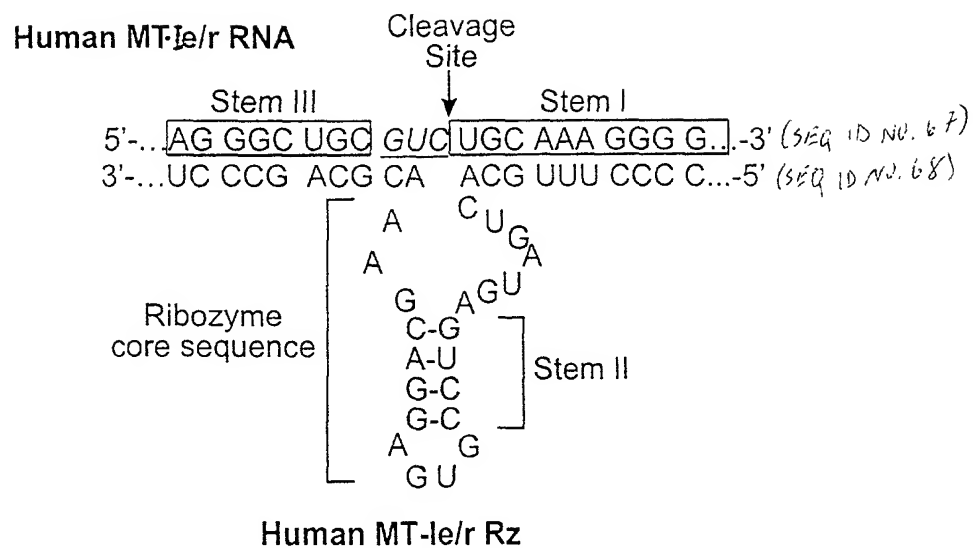
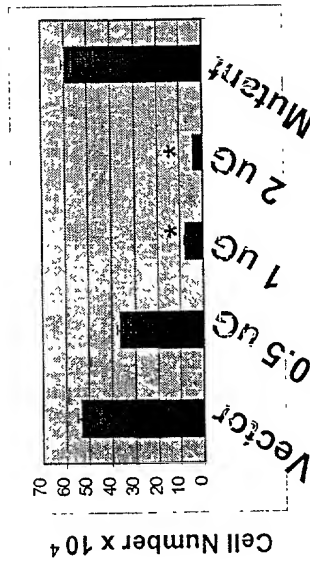


Fig. 8A



* = P < 0.005

Fig. 8B

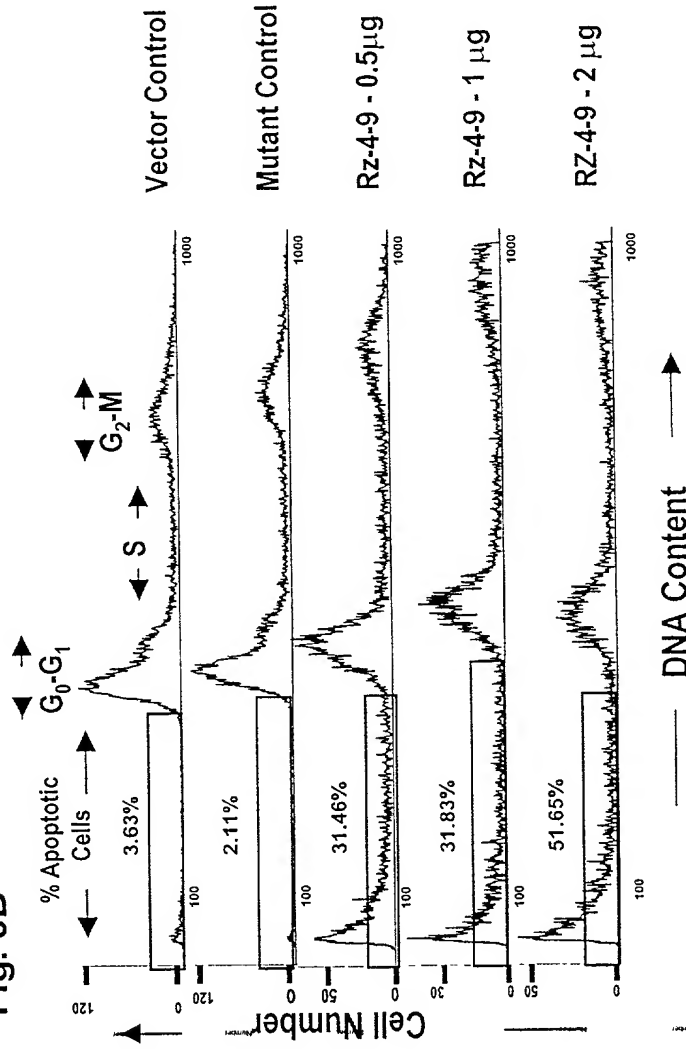
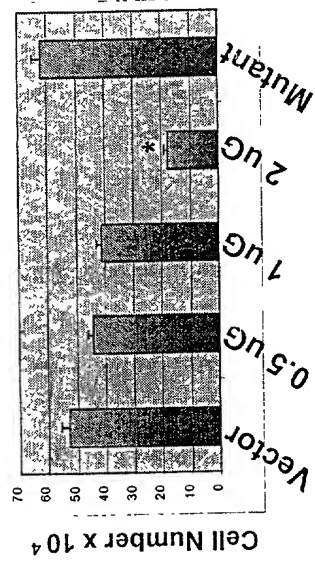


Fig. 9A



* = P < 0.005

Fig. 9B

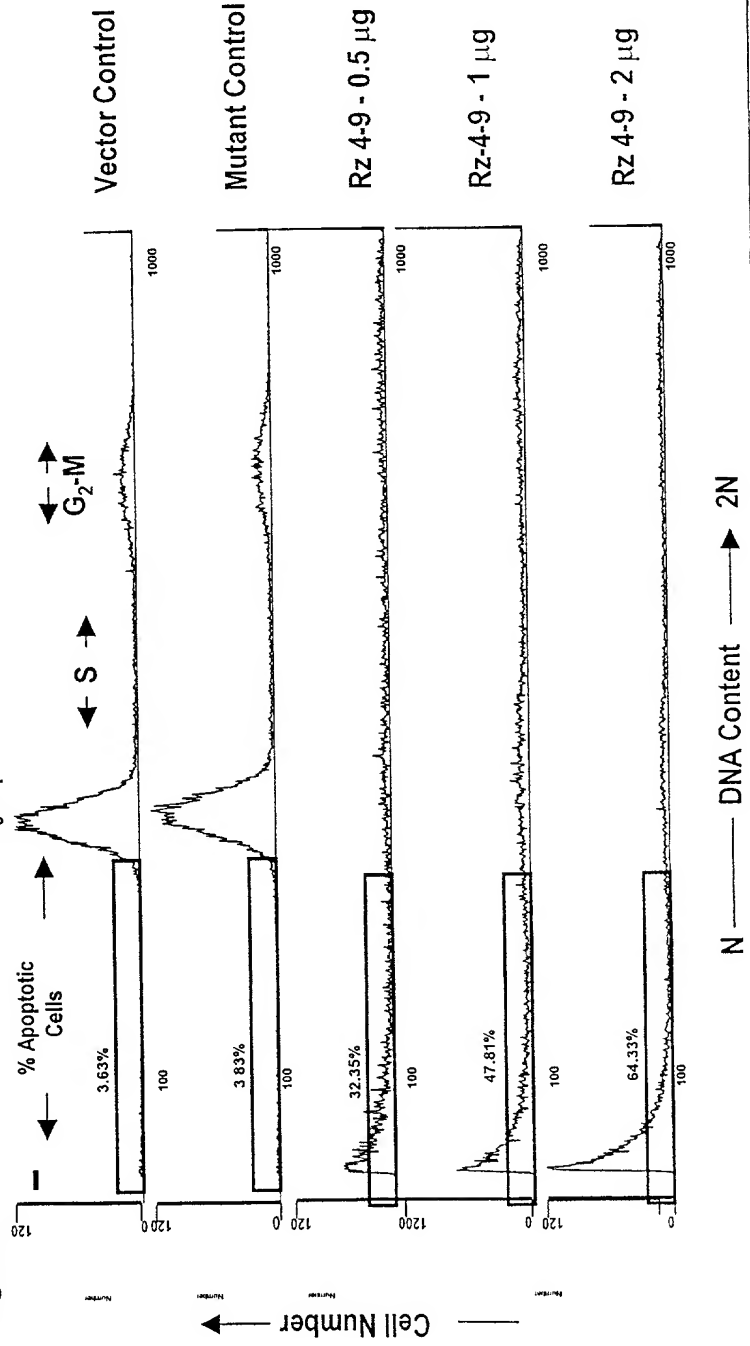


Fig. 10A

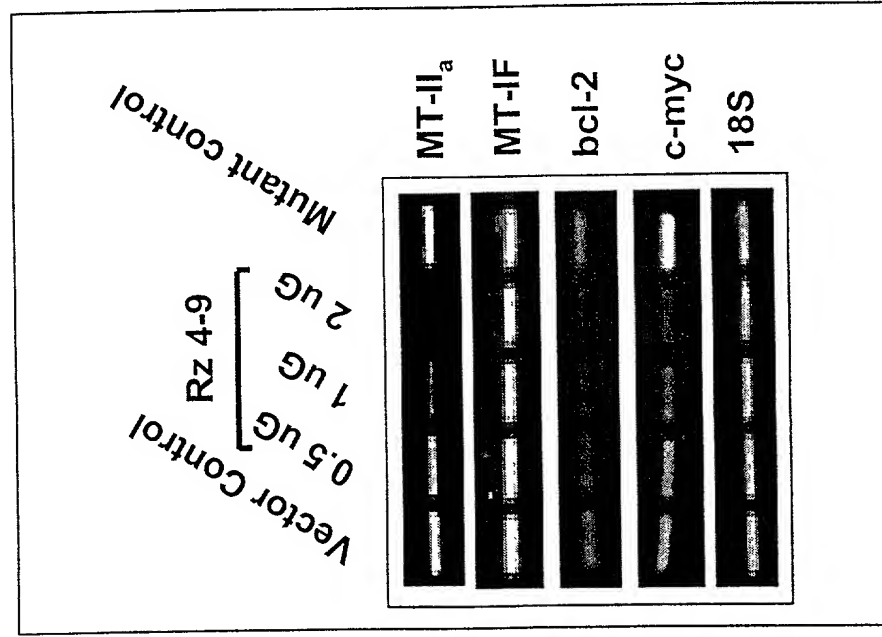
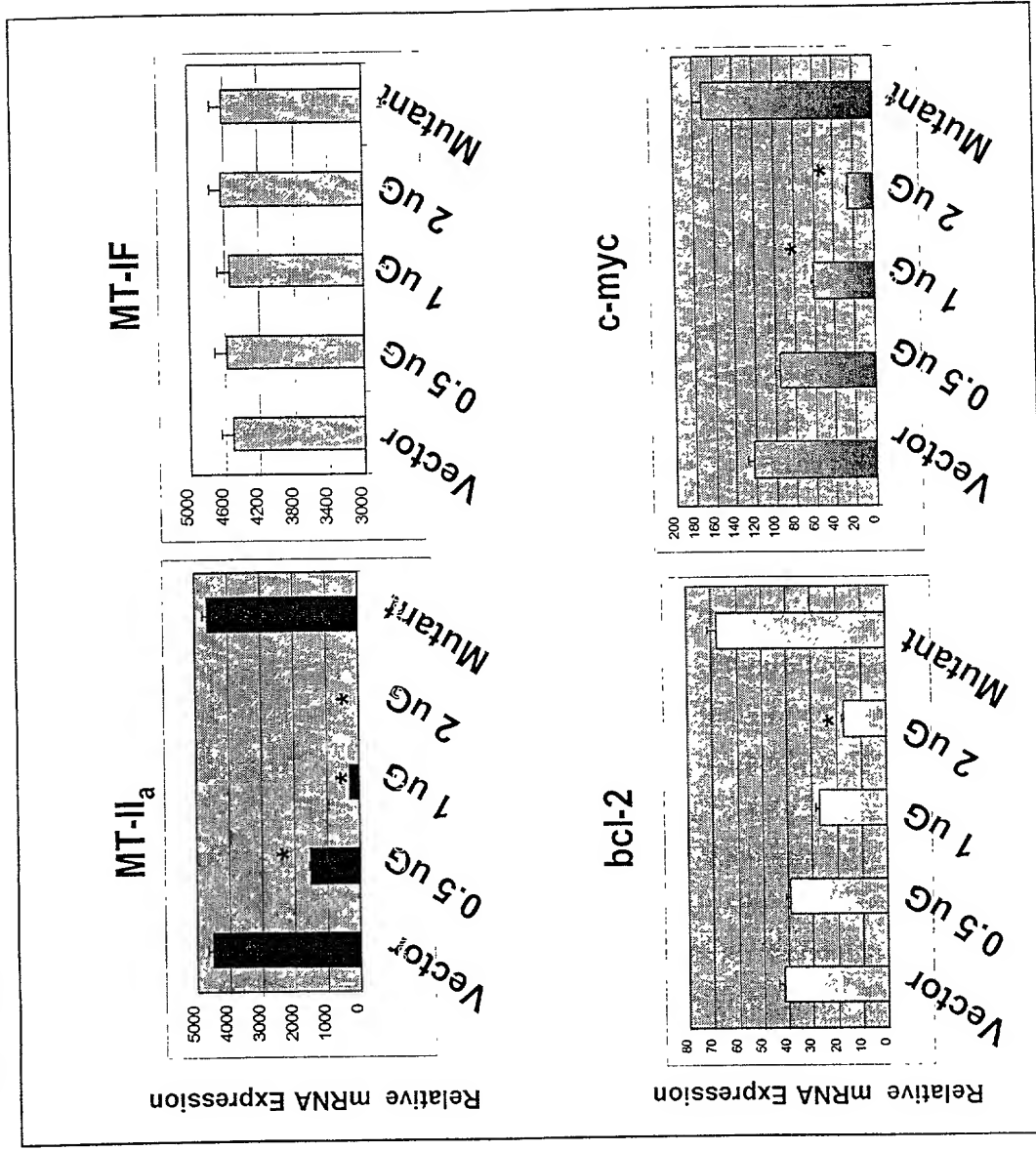


Fig. 10B



* = P < 0.005

Fig. 11A

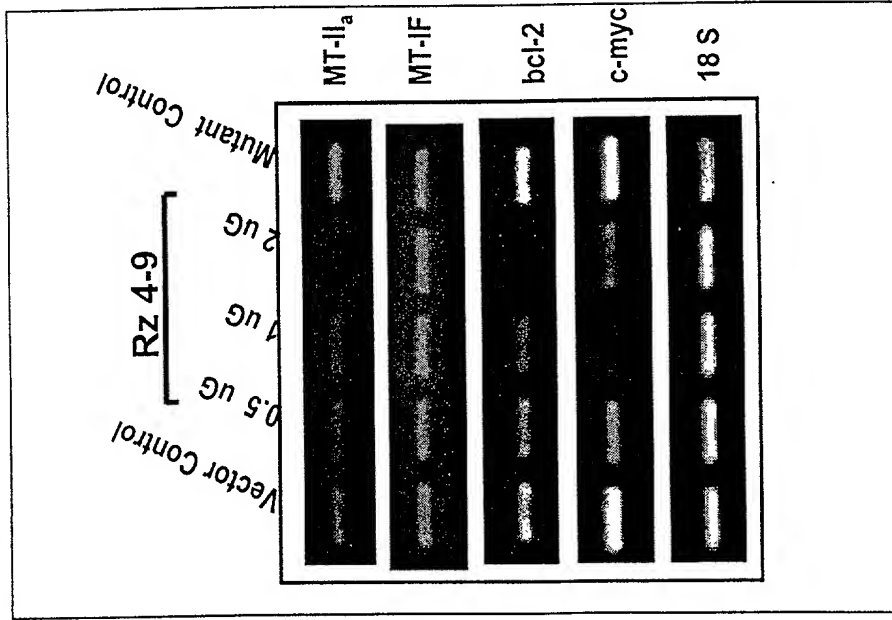
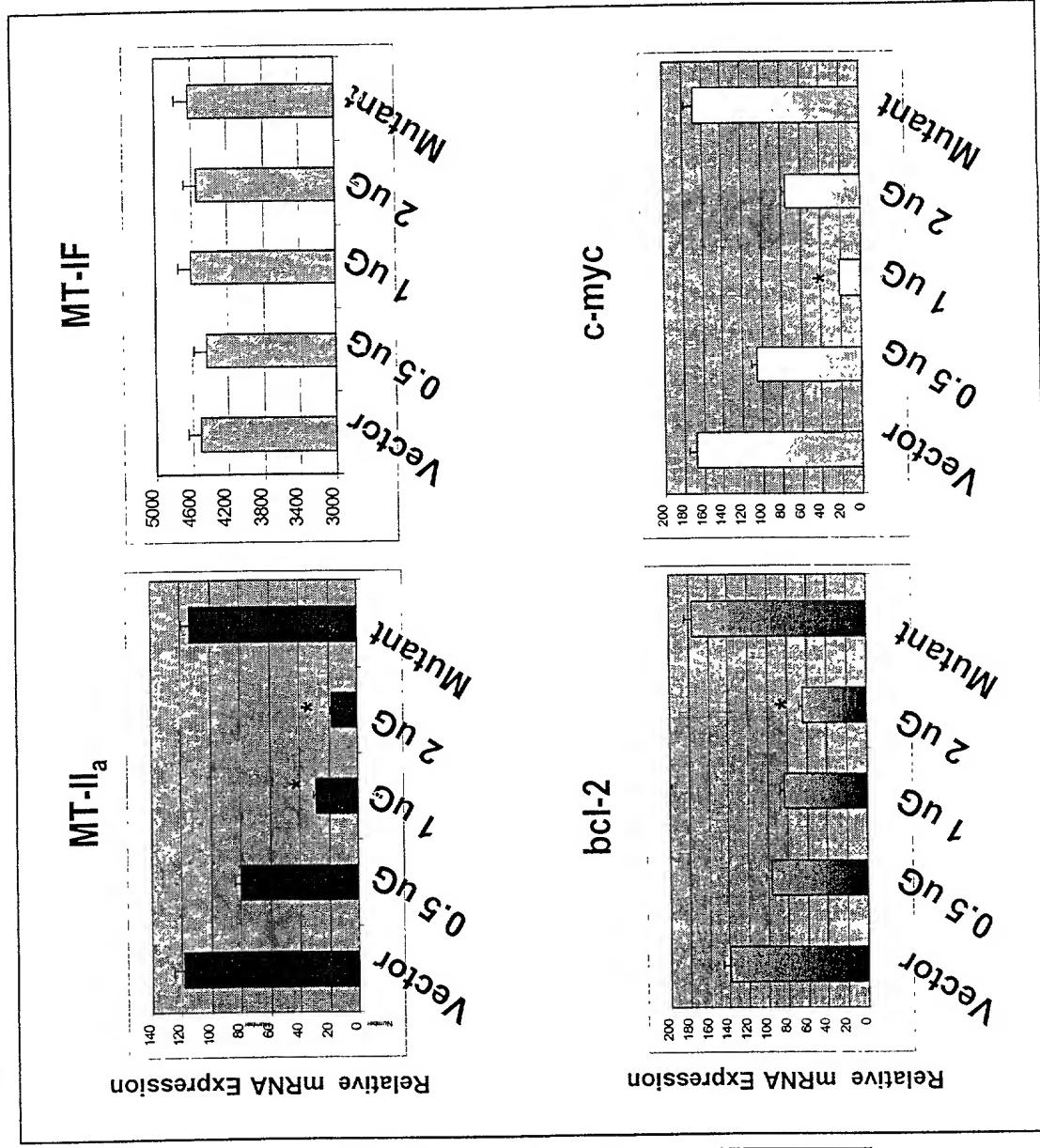


Fig. 11B



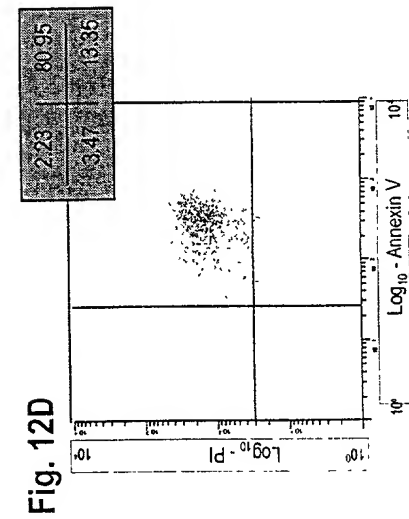
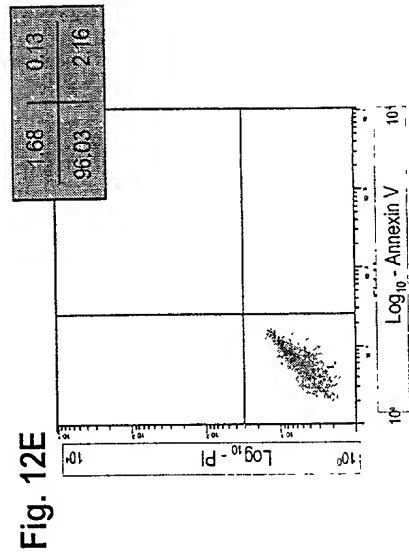
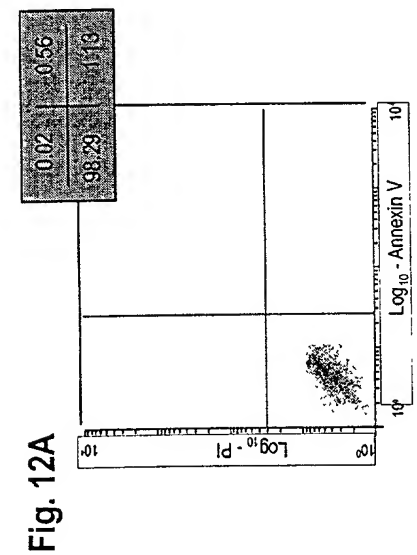
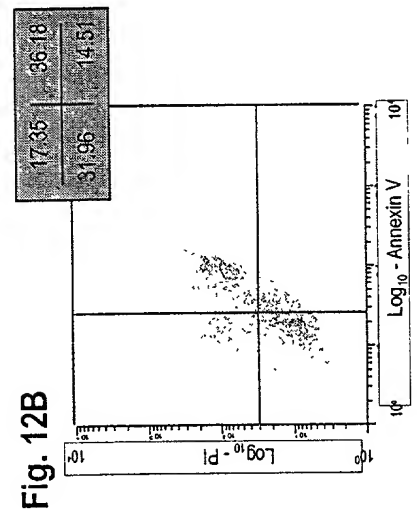
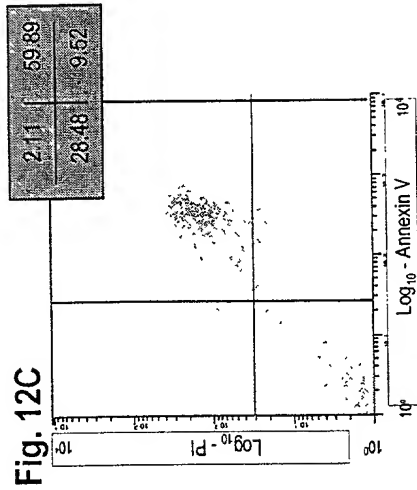


Fig. 13A

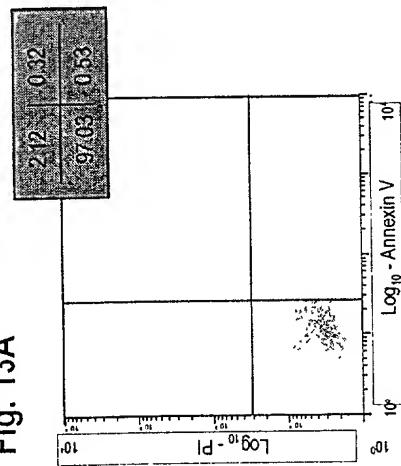


Fig. 13B

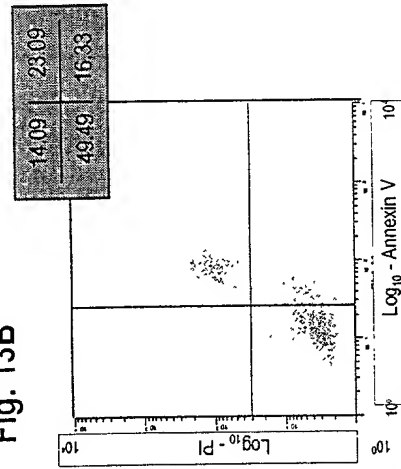


Fig. 13C

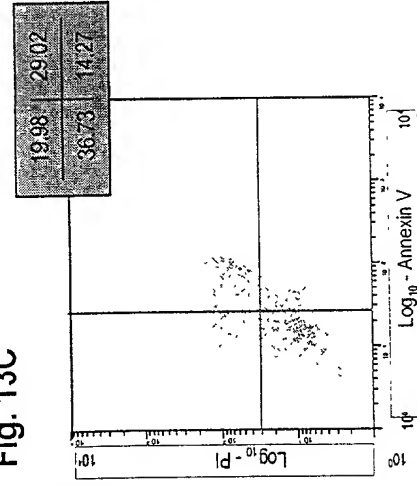


Fig. 13D

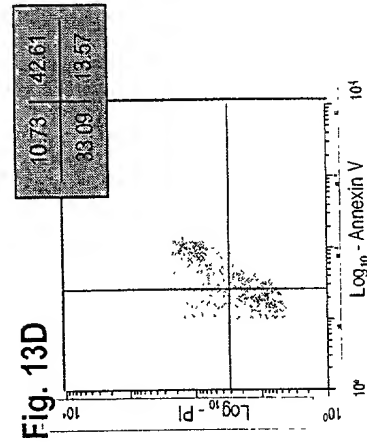


Fig. 13E

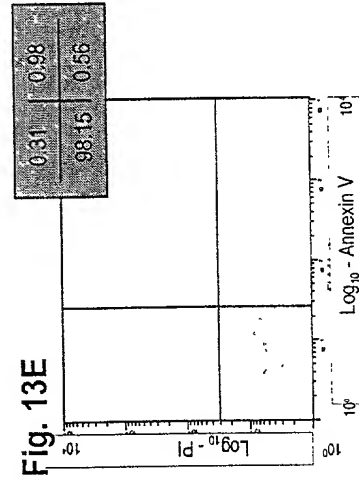


Fig. 14

Human MT-Ia Rz:

Forward Primer: 5'-CCG AAT TCG CAC TTC TCT CTG ATG AGT CCG TGA GGA CGA A-3' (SEQ ID NO: 27)

Reverse Primer: 5'-GCT CTA GAG CGT GTG TGT GCA AAG GGG CAT TTC GTC CTC ACG GAC-3' (SEQ ID NO: 28)

Human MT-If Rz:

Forward Primer: 5'-CCG AAT TCG CAC TTC TCT CTG ATG AGT CCG TGA GGA CGA A-3' (SEQ ID NO: 29)

Reverse Primer: 5'-GCT CTA GAG CGT GTG TGT GCA AAG GGG CGT TTC GTC CTC ACG GAC-3' (SEQ ID NO: 30)

Human MT-Ie/r Rz:

Forward Primer: 5'-TAC CCG GGC TGT GTG TGT GTA GGG CTG CGT TTC GTC TCA CGG AC-3' (SEQ ID NO: 31)

Reverse Primer: 5'-GCT CTA GAG CCC CCT TTG CAC TGA TGA GTC CGT GAG GAC GAA-3' (SEQ ID NO: 32)

Human MT-Ighix/-II Rz:

Forward Primer: 5'-GCT CTA GAG CCC CCT TTG CAC TGA TGA GTC CGT GAG GAC GAA-3' (SEQ ID NO: 33)

Reverse Primer: 5'-TAC CCG GGC TGT GTG TGT GTA GGG CTG CAT TTC GTC CTC ACG GAC-3' (SEQ ID NO: 34)

Human MT-Ib Rz:

Forward Primer: 5'-CCG AAT TCG AGC CTT TGC ACT GAT GAG TCC GTG AGG ACG AA-3' (SEQ ID NO: 35)

Reverse Primer: 5'-GCT CTA GAG CGT GTG TGT GTA GGG CTG TGT TTC GTC CTC ACG GAC-3' (SEQ ID NO: 36)